Hi5-3D Mini-Converter Q&A

1. What is the Hi5-3D?

The Hi5-3D is a 3D video multiplexer Mini-Converter that combines two 3G-SDI or HD-SDI Inputs into various multiplexed 3D formats for output on true stereoscopic ("stereo") HDMI 1.4a as well as HD-SDI.
The Hi5-3D is the most flexible 3D Mini-Converter in the market with full access to Horizontal and Vertical (H&V) image flipping, an absolute must for the reality of 3D camera setups.

2. What are the inputs to the Hi5-3D?

Dual 3G-SDI and HD-SDI (auto-selected), SMPTE-292/296/424:

1 SDI for left eye input (10-bit)
1 SDI for right eye input (10-bit)

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3. What are the outputs?

1 - HDMI v1.4a true stereo output at 10-bit.
1 - 3G/HD-SDI output at 10-bit.

4. Is SD-SDI supported on the HI5-3G?

No, SD-SDI is not supported.
The input needs to be a 3G or HD-SDI source.

5. Since the Hi5-3G supports HDMI 1.4a does it support all the previous HDMI standards?

Yes, all HDMI standards up to and including true stereo HDMI 1.4a are supported.

6. What modes of 3D are supported in the Hi5-3D?

The Hi5-3D supports the following 3D modes, depending on the video format:

1. "Side-by-Side",
2. "Top-Bottom",
3. "Frame- Packing"

The "Side-by-Side" and "Top-Bottom" modes involve compressing, either horizontally or vertically, each input for combining into a single video stream at the same rate of the inputs.

The "frame-packing" mode stacks two full resolution inputs into a "tall" frame (at twice the clock and line rates).

When selected, "frame- packing" can only be used with 23.98/24Hz input frame rates.

Each input, in addition to 3D processing, can be flipped either horizontally, vertically, or both. The control is provided by 4 switches that can be engaged in any combination.

7. What are the formats supported?

The Hi5-3D works with both 2D and 3D inputs.

When in the 2D mode, the input is simply passed to the output unmodified.

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In the 3D mode, the Hi5-3D supports the minimum required 3D modes as defined by the CEA for HDMI 1.4a televisions.

8. What raster sizes and frame rates does the minimum CEA standard entail ?

720p 50/59.94/60
1080p 23.98/24
1080psf 23.98/24
1080i 50/59.94

Note: "psf" inputs are converted to "p" for HDMI output.

The SDI output can support S/S and T/B formats only.
Future software versions may add other frame rates.

9. What type of user controls are supported?

The Hi5-3D supports both dipswitch control and host control via the AJA Mini-Config application.

One of the dipswitches is a "Local/Remote" switch:

When in the "Local" mode, the remaining dipswitches support a subset of the user controls. When in the "Remote" mode, AJA's Mini-Config application controls the unit (or control as last set by the application).

10. Does the Hi5-3G support audio?

Yes, embedded audio (2 or 8 channel) is supported from input plus an additional 2 channel RCA jack outputs audio, useful for monitoring where necessary.

The audio channels output via RCA can be selected via the AJA Mini-Config application.

11. Can I use the HD-SDI output to deliver to a 3D stream over SDI?

Yes, the HD-SDI output can be used to deliver a 3D stream to other devices for distribution in a facility or mobile truck environment.

12. Are all the outputs active at one time?

Yes.

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13. What type of monitor is needed for the 3D output?

A 3D HD-SDI and/or true stereo HDMI 1.4a capable monitor.

14. How is the Hi5-3G powered?

The Hi5-3G is 5-20V and can be powered by the DWP, DWP-U or DWP-12V.
Note: (power supply sold separately)

15. How do I upgrade or change settings on the Hi5-3G?

Setup via Dipswitch or the AJA Mini-Config app on PC/Mac using the USB port and supplied USB cable (USB configuration software application supplied on CD).

Any future firmware updates are done via the USB interface.

16. Where do I go for more information on the Hi-5 3D?

More information can be obtained from your local reseller or you can visit the AJA website: http://www.aja.com

Or you can call or email AJA Sales directly for more information: sales@aja.com

17.What is the price of the Hi5-3D?

The retail price for the Hi5-3D is an astonishingly low USD $495.00

18. What is the warranty period for the Hi5-3D?

The warranty period for the Hi-5 3D is a generous 5 years, the standard international warranty period for all AJA Converter products.

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